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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,224	02/26/2004	Burkhard Kuhls	080437.53236US	2832
23911 CROWELL & I	7590 12/28/201 MORING LLP	EXAMINER		
	AL PROPERTY GRO	JOHNSON, CARLTON		
P.O. BOX 1430 WASHINGTO	N, DC 20044-4300	ART UNIT	PAPER NUMBER	
			2436	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/786,224	KUHLS, BURKHARD	
Examiner	Art Unit	

CA	RLTON V. JOHNSON	2436	
The MAILING DATE of this communication appears	on the cover sheet with the	correspondence add	ress
THE REPLY FILED <u>06 December 2010</u> FAILS TO PLACE THIS AP	PLICATION IN CONDITION F	OR ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or on the application, applicant must timely file one of the following replication in condition for allowance; (2) a Notice of Appeal (v for Continued Examination (RCE) in compliance with 37 CFR periods:	same day as filing a Notice of es: (1) an amendment, affidav vith appeal fee) in compliance	Appeal. To avoid abar it, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expires 3 months from the mailing date of the b) The period for reply expires on: (1) the mailing date of this Advisor no event, however, will the statutory period for reply expire later the Examiner Note: If box 1 is checked, check either box (a) or (b). O MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).	ory Action, or (2) the date set forth nan SIX MONTHS from the mailin	g date of the final rejection	n.
Extensions of time may be obtained under 37 CFR 1.136(a). The date on whave been filed is the date for purposes of determining the period of extension under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shorteset forth in (b) above, if checked. Any reply received by the Office later than may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	on and the corresponding amount ened statutory period for reply orig	of the fee. The appropria inally set in the final Office	te extension fee e action; or (2) as
 The Notice of Appeal was filed on A brief in compliance filing the Notice of Appeal (37 CFR 41.37(a)), or any extension Notice of Appeal has been filed, any reply must be filed within AMENDMENTS 	thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
3. The proposed amendment(s) filed after a final rejection, but p (a) They raise new issues that would require further conside (b) They raise the issue of new matter (see NOTE below); (c) They are not deemed to place the application in better for appeal; and/or (d) They present additional claims without canceling a corre	eration and/or search (see NO orm for appeal by materially re	TE below); ducing or simplifying th	
NOTE: (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.121. S 5. Applicant's reply has overcome the following rejection(s): 6. Newly proposed or amended claim(s) would be allowal non-allowable claim(s).	<u></u> .		
7. For purposes of appeal, the proposed amendment(s): a) whow the new or amended claims would be rejected is provided. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 1,3-9 and 12-20. Claim(s) withdrawn from consideration:		ll be entered and an ex	xplanation of
AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, but before because applicant failed to provide a showing of good and suffer was not earlier presented. See 37 CFR 1.116(e). 	ficient reasons why the affidav	it or other evidence is	necessary and
9. The affidavit or other evidence filed after the date of filing a No entered because the affidavit or other evidence failed to overce showing a good and sufficient reasons why it is necessary and	ome <u>all</u> rejections under appe	al and/or appellant fails	to provide a
 10. ☐ The affidavit or other evidence is entered. An explanation of t <u>REQUEST FOR RECONSIDERATION/OTHER</u> 11. ☒ The request for reconsideration has been considered but doe 		•	
See Continuation Sheet. 12. Note the attached Information Disclosure Statement(s). (PTC 13. Other:	0/SB/08) Paper No(s)		
/Nasser Moazzami/ Supervisory Patent Examiner, Art Unit 2436	/C. V. J./ Examiner, Art Unit 2436	5	

Examiner Position:

The arguments were not persuasive in overcoming the currently rejected claims. Responses to Remarks

- 1. Public/private key pairs are data structures utilized by software modules or programs to perform cryptographic operations which are used in the protection of data. The software signature site (a software program, module) acting as a user can be the associated owner of the public/private key pair.
- 2. The claim limitation states: "signing the software against falsification" and "checking the signed software signature site certificate for integrity" (Claim 1).

This limitation discloses that the software is signed. England discloses that software is signed. (see England col. 11, lines 47-51: boot block and all loaded components signed by a trusted source and provided with a certificate; col. 11, lines 54-59: checks digital signature of a component before loading it; signature valid then component has not been compromised and loaded) And, the certificate for the software signature site is signed and the site signature attached to the certificate is checked for integrity (determined tampering). (see England col. 8, lines 7-14: certificate is signed and signature checked for validity of certificate, public/private key pair usage; col. 8, line 66 - col.9, line 3: trusted third party (use digital signature for authentication); trusted third party equivalent to trust center)

The manufacturer of the software (based on specification) is the software signature site. England discloses a manufacturer of the software (OS software). This disclosure appears to be equivalent to the claimed invention. The manufacturer of the software is also the manufacturer of the CPU. This fact of manufacturing the CPU does not negate from the fact that the indicated manufacturer is also the manufacturer of the software which is signed and checked for integrity. The manufacture of the software signs the software and the manufacturer of the software signs the certificate (public/private keys).

The specification on page 6, paragraph [0021] discloses that the software signature site is the manufacturer of the software and that the manufacturer of the software is also the manufacturer of the control unit or entity. England discloses a manufacturer of software. And, England discloses that the software manufacturer signs the software (such as a boot block). Since it is the manufacturer of the software (England discloses) therefore it is the software signature site as per specification. In addition, England discloses that the manufacturer has a public/private key pair. That particular private key is used to sign the software. (see England col. 7, line 63 - col. 8, line 37: manufacturer (CPU, controlling entity for control unit, OS software manufacturer) certificate generated with public/private keys; manufacturer's public/private key pair)

England discloses a software signature site and a public/private key pair used for signing software. (see England col. 7, line 63 - col. 8, line 37: manufacturer (CPU, control entity, OS software manufacturer) certificate generated with public/private keys; manufacturer's public/private key pair)

Ishii discloses the generation of a signature (a standard cryptographic processing function) using a public key of one entity and a secret key of another entity. (Ishii col 5, lines 43-67: signing (signature certificate) by using the secret key of certification issuing center (first public key cryptosystem); deciphering processing using the secret key or encryption processing (signature generation) using the public key or the second public key cryptosystem; cryptographic processing (signature generation using a public key and a secret key)

- 3. England discloses a control entity or a control unit. (see England col. 8, line 66 col. 9, line 2: software developer or manufacturer digitally signs software before use; private (secret) key of manufacturer's CPU (control entity)) And, Wong explicitly discloses a control unit for an automobile or vehicle. (see Wong col. 2, lines 21-29; col. 4, line 64 col. 5, line 8; col. 7, lines 35-39: control unit; software for vehicle control unit)
- 4. England discloses Claim 7 limitations: 1. a clearing code site signature; 2. a software signature certificate; 3. clearing code data and their signature; and 4. software and its signature. England discloses a certificate (software signature, clearing code signature) which contains a public/private key pair for each particular certificate. England also discloses (see England col. 7, lines 50-54: storage of keys, certificates; manufacture equips the CPU with a pair of public and private keys that is unique to CPU; certificate contains public key)

England discloses the clearing code data (identity) and signature capability for a certification (clearing code certificate. (see England col. 8, lines 26-28; col. 9, lines 4-10: software identity; identify of an authenticated OS)

This is equivalent to the specification on page 3, paragraphs [0010] and [0012], which discloses that the clearing code certificate contains an identifier and the capability to restrict usage to a particular control entity.

5. England discloses a verification step to determine whether signed software has been changed or manipulated. A certificate (no matter what type) is still digital information and its integrity can be checked using digital signature verification procedures. England discloses the verification of whether digital information (a digital certificate) has been modified or changed. (see England col. 11, lines 54-59: checks signature of a component before loading it; if signature valid then component has not been compromised) The Examiner is operating under the assumption that when a component is signed then the component is protected. Any modification or updates to the certificate can be discovered by checking the digital signature.